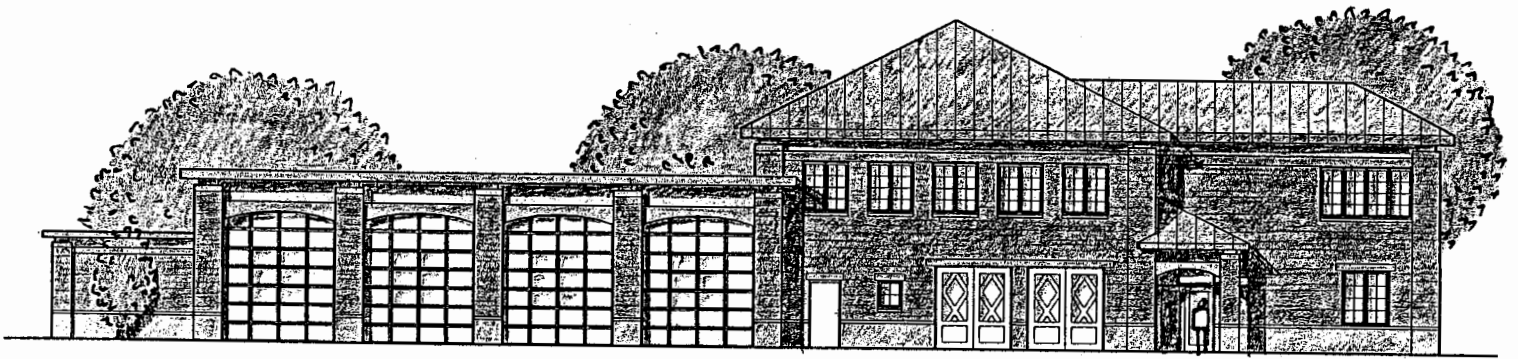


**Report  
of the  
Fire Station Building Committee**



**September 20, 2005**

## Introduction

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The information contained within this report is intended to provide background information to Town Meeting Members on the progress that has been made by the Fire Station Building Committee that was established by town meeting under Article 32 of the May 17, 2004 Annual Town Meeting.

This report will also provide financing information on a proposal contained within Article 1 of the October 11, 2005, Special Town Meeting which is to construct a new Fire Headquarters at the Town Center, renovate Fire Station Number Two and construct a new Cemetery Department office and garage to replace the existing structure that under this proposal will be razed to make room for the new Fire Headquarters.

## Background

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In October of 2001, newly appointed Fire Chief Gerald LaFlamme filed with the Town Manager, Board of Selectmen and Finance Committee a ten year strategic plan for the Fire Department (<http://www.shrewsbury-ma.gov/pdffiles/fire/plan.pdf>). One aspect of the plan dealt with the issue of the aging Fire Headquarters. Since 2001, progress has been made in meeting the several objectives set forth in the plan in the form of staffing, equipment repair and replacement, vehicle replacement and facility improvements leading now to a proposal to replace the existing Fire Headquarters and renovate the existing Fire Station #2.

The current facilities proposal has evolved from that originally outlined in May of 2004 when town meeting approved a purchase of a parcel of land on Route 20 for the purposes of constructing a new Fire Headquarters. This land purchase was subsequently rescinded upon the recommendation of the town manager when the parcel was not acquired resulting from issues identified in a G. L. c. 21E assessment. This resulted in a renewal of efforts to locate a site for a Fire Headquarters which ultimately returned to examining the Town Center. Discussion with a property owner resulted in a purchase of a small parcel of land which now made possible the construction of the Fire Headquarters in the Town Center on existing Town property.

A condensed chronology of events:

Date	Event/Action
October 2001	Strategic plan is filed
September 2003	Town Meeting authorizes \$50,000 for site selection process
May 2004	Town Meeting authorizes \$1,000,000 to fund purchase of parcel of land on Route 20 for Fire Headquarters
May 2004	Town Meeting authorizes \$150,000 to fund design development expenses.

Date	Event/Action
June 2004	Site on Route 20 develops issues relative to a G.L. c. 21E Phase II assessment that was conducted.
July 2004	Site selection resumes and settles on Town Center.
April 2005	Building Committee meets to begin design development process to determine if the Fire Headquarters could be located in the Town Center.
May 2005	Town Meeting authorizes purchase of 15,017 sf of land at Town Center.
May 2005	Town Meeting rescinds May 2004, \$1,000,000 land purchase authorization.
October 2005	Special Town Meeting

## The Shrewsbury Fire Department

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One word to use to describe today's Shrewsbury Fire Department would be pro-active. The Shrewsbury Fire Department today is the center of public safety activity. As administrators of public safety, fire personnel must handle fires, motor vehicle accidents, collapses, floods, hurricanes, tornadoes, and medical emergencies, as well as problems no one else has a cure for. These events remain, as always, unscheduled and unpredictable. These incidents are time sensitive, life threatening, and labor intensive. You never know when they will occur, but when they do, you need lots of trained people immediately.

Training is necessary and ongoing to insure proper, safe, and efficient operations. In today's world the fire department is called upon to respond to hazardous material incidents, the likes of which were never on the radar screen before. SARS. Small pox, SARAN, Anthrax, Racine are some of the exotics. More mundane in today's industry are nitric acid, hydrofluoric acid, sodium hydroxide, chlorine, argon, cobalt, just to name a few. Since all this resides in town we train to the products. Inspections are key to knowing what the hazards are and then training for the hazard is developed.

Public education is a major component of the fire department. School children are educated on fire safety. This education satisfies curiosity about fire, so much so that we have no more juvenile fire setting issues in Shrewsbury. Seniors are targeted for life safety and fire safety lessons as well as free distribution and installation of fire detectors. Fires in homes of single seniors are nil since the program started.

Fire protection for the Town of Shrewsbury is documented to have begun in 1850, with the opening of the first private Fire Company. This company, known as the Quinsigamond Engine Company was documented from the notes of the parish with the following notation: "if the parish would grant leave to have an engine house set up on their common". The second fire protection notation was in 1851: "the Fountain came to town and set up (a) fire station on South Street". (This information was collected from The History of the Shrewsbury Fire Department, written by Michael Perna Jr.)

#### Important Dates:

1896, a new fire station for the Quinsigamond Engine Company was built on the present site of Fire Headquarters.

1916, first Lake District Fire Station was established in the Dufresne Brothers Dairy property at the corner of Dewey Road.

**1927 the current Fire Headquarters was built at Church Road, housing the Fire Department and the Police department.**

1930, the Lake Station moved to the corner of Lakeview, in the barn at Moalli's property (the current Express Printing building).

1940, 'first full time fire fighters were hired by the Town.

1943, a new fire truck was housed in a private garage at Edgemere Boulevard

**1950, the current Lake Fire Station was constructed by the town at Harrington Avenue.**

1962, the Town, at 100 Hartford Turnpike (Route 20) constructed the current Edgemere Fire Station

**1974, Fire Headquarters is reconfigured following the departure of the Police Department to new quarters.**

#### A Historical Perspective of Fire Apparatus Purchases

- 1921 Mack Triple Combo truck
- 1922 Cadillac touring car donated, converted to fire truck / ambulance
- 1926 American LaFrance triple combo truck
- 1927 Cities Service 4 way Combo Ladder truck
- 1928 Farrar / Reo pumper
- 1951 American LaFrance Engine 2
- 1956 Farrar / Ford Combination 1
- 1962 Farrar / Ford / Grove Ladder**
- 1962 Farrar / Ford Engine 3

1963	Farrar / International Forestry 1	
1969	Farrar / Duplex Engine 1	
1977	Farrar / Hendrickson Engine 2	
1982	Farrar / Ford Brush Unit 1	
<b>1986</b>	<b><u>Farrar / Hendrickson re-power of 1962 Grove Ladder</u></b>	In service
1987	Kovatch / Ford Engine 4	In service
1986	Kovatch Engine 3	In service
1994	E-One Engine 1	In service
1997	E-One Engine 2	In service
2000	Kovatch Rescue 1	In service

Type of call	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Structure Fire	76	107	79	115	107	106	87	78	85	76	71	130	95	115
Alarm of Fire	267	268	237	221	297	207	260	292	276	281	311	382	387	362
Vehicle Fire	47	47	56	35	50	49	59	51	62	43	29	24	67	22
Brush Fire	104	42	65	89	77	45	77	46	84	51	72	44	36	42
Other Fire Calls	147	129		144	144	115	119	171	179	216	235	109	17	6
Response to fire calls	641	593	437	604	675	522	602	638	686	667	718	689	602	547
First Responder	401	594	642	719	966	1100	1150	1237	1475	1640	1332	1425	1463	1395
Vehicular Accidents	132	183	202	206	225	225	291	282	336	308	217	245	227	223
Mutual Aid to Surrounding Town	4	8	5	7	12	12	8	8	15	9	41	15	0	5
Water / Rescue														
Lockouts			6	7	9	6	7	10	9	10	13	30	15	52
Bomb Threat	4	4	0	0	0	5	1	1	4	2	3	0	2	0
Hazardous Materials	38	37	38	23	26	34	32	42	33	28	77	66	83	129
Carbon Monoxide Alarms						66	65	57	39	4	25	29	23	19
Complaint from Public	19	21		40	46	28	33	33	31	31	20	14		102
Investigations				39	65	45	52	46	39	41	46	14	38	58
Calls for Service	1239	1440	1330	1645	2024	2043	2241	2354	2667	2740	2492	2618	2453	2583
Oil Burner Inspections								297	151	219	128	105	200	112
Smoke Alarm Inspections								958	1029	901	790	990	1250	899
Business Inspections								78	80	150	348	594	1563	1750
Inspections Performed								1333	1260	1270	1359	1737	3013	2761

The Town of Shrewsbury has historically, since the end of World War Two, staffed the fire department at a constant level of 28 to 32 firefighters. In the mid 70's 4 new positions were added in order to staff the Edgemere station with a second firefighter (prior to this the station was manned by a lone firefighter). In 1986 the staffing was increased to 36 and almost immediately attrition back to 32 was exercised due to budget

constraints. Once again the department remained at 32 firefighters until 2004, when the department added four new firefighter positions, arriving at the current 36 staff.

Over these same fifty five years the town grew from under 14,000 residents to the current population of slightly over 33,000.

## **The Problem**

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Today the Fire Headquarters is too small to house the equipment inventory, too cramped to operate efficiently and just worn out. What was designed to accommodate the first engine powered fire trucks has made do to the point where there is no floor space not taken up by trucks, the doorways literally only inches wider than the trucks and there are poor approach paths due to large modern trucks.

When the station was built in the late 1920's emergency medical services, hazardous materials mitigation, search and rescue, high angle rescue, trench rescue, public education, and weapons of mass destruction (Chemical, Biological, Radioactive, Nuclear, Explosive) were not even heard of. Yet, today they are staples of fire department delivery of service. Inventory necessary to meet our mission is stored in every conceivable space, including the attic, cellar and in trailers outside.

The fire department is the only organization that literally lives in the buildings. The personal facilities are inadequate for the number of staff and do not allow for separate facilities for male and female employees at any of the stations. There are no areas in the building available for any administrative work to be properly conducted. There is one room, 10 x 20 where all work is conducted.

The replacement of the current ladder truck will force the relocation of the apparatus from the Town Center to Station #2 since any new vehicle will not fit into the existing building without extensive renovation and expansion. This will have staffing and deployment implications and should be avoided if possible.

In the case of Station #2, the building is now 55 years old and an updating is warranted. The building is structurally sound and with updating will serve the community for many years to come.

Unfortunately, to make room for the new Fire Headquarters, the existing Cemetery Department office and garage constructed in 1968 must be razed and reconstructed on the northern access road of the Mountain View Cemetery.

## **What is Proposed**

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The proposal being made by the Building Committee consist of three parts (see attached site and floor plans and building elevations):

1. Construct a new 16,304 sf Fire Headquarters on land directly adjacent to the existing Fire Headquarters which also encompasses land now used by the Cemetery Department (the current facility is 7,000 sf).
2. Construct a new 3,422 sf Cemetery Department office and garage on land within Mountain View Cemetery since the existing office and garage will be razed to make room for the new Fire Headquarters.
3. Renovate the current Fire Station #2 (3,761 sf) located on Harrington Avenue

## **The Project Budget**

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The project budget for this proposal is \$6,650,000 broken down as follows:

<b>Item</b>	<b>Fire Headquarters</b>	<b>Cemetery Office &amp; Garage</b>	<b>Fire Station #2</b>	<b>Total</b>
Site Work/Site Utilities	\$492,332	\$111,782	\$0	\$604,114
Building	\$2,987,984	\$568,165	\$514,021	\$4,070,170
Architectural Fees	\$181,250	\$35,000	\$41,100	\$257,350
Furnishing & Equipment (FF&E)	\$200,000	\$15,000	\$30,000	\$245,000
Engineering & Professional Fees	\$50,000	\$10,000	\$30,000	\$90,000
Clerk of Works	\$30,000	\$0	\$10,000	\$40,000
Printing	\$35,000	\$2,000	\$5,000	\$42,000
Legal and Bond Expenses	\$75,000	\$10,000	\$10,000	\$95,000
Testing & Borings	\$50,000	\$5,000	\$10,000	\$65,000
Inflation	\$104,409	\$23,798	\$15,421	\$143,628
Design Contingency	\$215,084	\$35,187	\$26,472	\$276,743
Construction Contingency	\$578,941	\$84,068	\$57,986	\$720,995
<b>Total</b>	<b>\$5,000,000</b>	<b>\$900,000</b>	<b>\$750,000</b>	<b>\$6,650,000</b>

## **Fiscal Impact**

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The fiscal impact of this project will be in two forms:

1. Additional operational costs associated with the expanded Fire Headquarters which are offset through efficiencies afforded through the new mechanical systems improvements to Fire Station #2 and Cemetery Department office and garage. Current estimate is a net increase in operational costs of \$50,000 per year which in light of the recent escalation in energy costs is very much a guess but clearly a more than twofold expansion of the Fire Headquarters will result in much higher operational costs for that facility. There will be no additional personnel costs resulting from this proposal but the Fire Headquarters is designed for growth in personnel over time.

2. The debt service expenses associated with the twenty year bond issue to fund this project are estimated to be \$667,500 in the first year. Contained within this report are Exhibits One and Two that provide detailed information on the debt service expenses for this project together with a summary of how this new debt service affects the overall debt structure of the community.

The Committee asks that all town meeting members and citizens carefully consider this fiscal impact.

## Next Steps

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The next steps to be taken on the proposal is for the Town Meeting to consider this proposal on October 11, 2005. This will be followed by a Special Town Election on November 8, 2005 that will ask that the expenses associated with this bond issue be exempted from the provisions of Proposition Two and One-half. In order for this project to proceed approval will be required from both the Town Meeting and voters at the Special Town Election scheduled for November 8, 2005.

If the project is authorized construction will begin in the Spring of 2006 and be concluded within twenty-four months.

## Conclusion

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This proposal represents a reasoned approach to the issue of fire facilities for the Town of Shrewsbury. While the new Fire Headquarters is larger than the existing building it is sized to accommodate the expected growth in the department over the next half century. The renovation of Station #2 is timely and reasonable and will allow that facility to remain in use for many years. Finally, the new Cemetery Department office and garage will be positioned in a location that will also serve this community for many years to come.

Respectfully,

Fire Station Building Committee

Bruce Card, Chairman  
Ralph LeBlanc  
Anthony Mastromatteo  
Pat Sacco  
Robert Cox  
Gerald LaFlamme  
Daniel Morgado



Exhibit One  
Debt Service Projection  
Fire Facilities Project  
October 2005

**Bond:** \$6,650,000  
**Rate:** 5.00%

**Term:** 20 years

Year	Principle	Interest	Total	Tax Rate Impact*	Impact on Average Residential Taxpayer **
1	\$335,000	\$332,500	\$667,500	\$0.16	\$54.40
2	\$335,000	\$315,750	\$650,750	\$0.15	\$53.04
3	\$335,000	\$299,000	\$634,000	\$0.15	\$51.67
4	\$335,000	\$282,250	\$617,250	\$0.15	\$50.31
5	\$335,000	\$265,500	\$600,500	\$0.14	\$48.94
6	\$335,000	\$248,750	\$583,750	\$0.14	\$47.58
7	\$335,000	\$232,000	\$567,000	\$0.13	\$46.21
8	\$335,000	\$215,250	\$550,250	\$0.13	\$44.85
9	\$335,000	\$198,500	\$533,500	\$0.13	\$43.48
10	\$335,000	\$181,750	\$516,750	\$0.12	\$42.12
11	\$330,000	\$165,000	\$495,000	\$0.12	\$40.34
12	\$330,000	\$148,500	\$478,500	\$0.11	\$39.00
13	\$330,000	\$132,000	\$462,000	\$0.11	\$37.65
14	\$330,000	\$115,500	\$445,500	\$0.10	\$36.31
15	\$330,000	\$99,000	\$429,000	\$0.10	\$34.96
16	\$330,000	\$82,500	\$412,500	\$0.10	\$33.62
17	\$330,000	\$66,000	\$396,000	\$0.09	\$32.28
18	\$330,000	\$49,500	\$379,500	\$0.09	\$30.93
19	\$330,000	\$33,000	\$363,000	\$0.09	\$29.59
20	\$330,000	\$16,500	\$346,500	\$0.08	\$28.24
	\$6,650,000	\$3,478,750	\$10,128,750		

\* Based on FY 2005 value of \$4,250,437,722

\*\* Based on FY 2005 average single family home value of \$346,435

Current Scheduled Excluded Tax Levy - FY 2006-2010				
Year	Value	Change	Tax Rate Impact*	Impact on Average Residential Taxpayer **
2006	\$7,649,086			
2007	\$7,305,377	(343,709.00)	(0.08)	(28.01)
2008	\$7,136,056	(169,321.00)	(0.04)	(13.80)
2009	\$6,948,603	(187,453.00)	(0.04)	(15.28)
2010	\$6,743,845	(204,758.00)	(0.05)	(16.69)

**Exhibit Two**  
**Combined Debt Service Schedule**  
**With**  
**Projected Debt Service Expenses - Fire Facilities Project**

Issue No.	Date of Issue	Purpose	Type of Payment	2006	2007	2008	2009	2010	2011	2012	2013	2014
1	2/1/1996 2/1/2005	<b>Floral St (EXEMPT)</b> 9,000,000	Principal	455,000	487,600	483,000	476,100	468,350	463,000	454,450	420,500	416,000
			Interest	216,127	152,767	138,139	123,649	109,366	95,316	80,268	64,363	49,645
			Total	671,127	640,367	621,139	599,749	577,716	558,316	534,718	484,863	465,645
1	2/1/1996 2/1/2005	<b>Floral St</b> 1,000,000	Principal	54,500	54,250	54,500	52,900	52,000	52,000	50,550	49,500	49,000
			Interest	20,300	17,437	15,810	14,175	12,588	11,028	9,338	7,569	5,836
			Total	74,800	71,687	70,310	67,075	64,588	63,028	59,888	57,069	54,836
2	2/1/1996 2/1/2005	<b>Town Hall Addition</b> 1,000,000	Principal	73,100	78,150	77,500	76,000	74,650				
			Interest	13,117	9,189	6,844	4,520	2,240				
			Total	86,217	87,339	84,344	80,520	76,890				
3	6/1/1999	<b>CATV Upgrade</b> 5,300,000	Principal	355,000	355,000	355,000	355,000	350,000	350,000	350,000	350,000	350,000
			Interest	144,545	129,634	114,370	98,750	82,775	66,675	50,400	33,775	16,975
			Total	499,545	484,634	469,370	453,750	432,775	416,675	400,400	383,775	366,975
4	6/1/1999	<b>Land Acquisition</b> 3,000,000	Principal	155,000	155,000	155,000	155,000	155,000	155,000	155,000	155,000	155,000
			Interest	97,378	90,868	84,203	77,383	70,408	63,278	56,070	48,708	41,268
			Total	252,378	245,868	239,203	232,383	225,408	218,278	211,070	203,708	196,268
5	6/1/1999	<b>Land Acquisition (HS)</b> 2,400,000	Principal	120,000	120,000	120,000	120,000	120,000	120,000	120,000	120,000	120,000
			Interest	79,260	74,220	69,060	63,780	58,380	52,860	47,280	41,580	35,820
			Total	199,260	194,220	189,060	183,780	178,380	172,860	167,280	161,580	155,820
6	6/1/1999	<b>Senior Center</b> 1,000,000	Principal	100,000	100,000	100,000	100,000					
			Interest	17,400	13,200	8,900	4,500					
			Total	117,400	113,200	108,900	104,500					
7	10/25/2000	<b>Title V Loan Program</b> 86,947	Principal	4,831	4,831	4,831	4,831	4,831	4,831	4,831	4,831	4,831
			Interest	0	0	0	0	0	0	0	0	0
			Total	4,831	4,831	4,831	4,831	4,831	4,831	4,831	4,831	4,831
8	8/15/2001	<b>High School</b> 58,900,000	Principal	3,075,000	3,075,000	3,075,000	3,075,000	3,075,000	3,075,000	3,075,000	3,075,000	3,075,000
			Interest	2,475,125	2,336,750	2,213,750	2,075,375	1,921,625	1,767,875	1,614,125	1,460,375	1,306,625
			Total	5,550,125	5,411,750	5,288,750	5,150,375	4,996,625	4,842,875	4,689,125	4,535,375	4,381,625
9	8/15/2001	<b>Land Acquisition</b> 2,000,000	Principal	115,000	110,000	110,000	110,000	110,000	110,000	110,000	110,000	110,000
			Interest	77,675	72,600	68,200	63,250	57,750	52,250	46,750	41,250	35,750
			Total	192,675	182,600	178,200	173,250	167,750	162,250	156,750	151,250	145,750

**Exhibit Two**  
**Combined Debt Service Schedule**  
**With**  
**Projected Debt Service Expenses - Fire Facilities Project**

<u>Issue No.</u>	<u>Date of Issue</u>	<u>Purpose</u>	<u>Type of Payment</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>
10	8/15/2001	<b>Light Upgrade</b> 1,760,000	Principal	110,000	110,000	110,000	110,000	110,000	110,000	110,000	110,000	110,000
			Interest	66,550	61,600	57,200	52,250	46,750	41,250	35,750	30,250	24,750
			Total	176,550	171,600	167,200	162,250	156,750	151,250	145,750	140,250	134,750
11	7/26/2001 2/1/2005	<b>Assabet River CWMP</b> 1,760,000	Principal	10,976	11,118	11,262	11,501	11,930	12,167	12,628	12,198	11,931
			Interest	3,179	3,236	3,109	3,000	2,787	2,567	2,360	2,124	1,888
			Total	14,155	14,354	14,371	14,501	14,717	14,734	14,988	14,322	13,819
12	8/1/2004	<b>Tide V Loan Program</b> 105,896	Principal	5,568	5,568	5,568	5,568	5,568	5,568	5,568	5,403	5,541
			Interest	0	0	0	0	0	0	0	0	0
			Total	5,568	5,568	5,568	5,568	5,568	5,568	5,568	5,403	5,541
13	11/19/2004	<b>Oak Middle School</b> 7,400,000	Principal	370,000	370,000	370,000	370,000	370,000	370,000	370,000	370,000	370,000
			Interest	413,521	260,572	249,704	239,066	227,966	216,173	203,685	190,504	176,860
			Total	783,521	630,572	619,704	609,066	597,966	586,173	573,685	560,504	546,860
14	11/19/2004	<b>North Shore School</b> 1,250,000	Principal	85,000	85,000	85,000	85,000	85,000	85,000	85,000	85,000	85,000
			Interest	65,534	40,219	37,722	35,278	32,728	30,019	27,150	24,122	20,987
			Total	150,534	125,219	122,722	120,278	117,728	115,019	112,150	109,122	105,987

**Exhibit Two**  
**Combined Debt Service Schedule**  
**With**  
**Projected Debt Service Expenses - Fire Facilities Project**

Issue No.	Date of Issue	Purpose	Type of Payment	2006	2007	2008	2009	2010	2011	2012	2013	2014
<b>Existing Debt Service</b>												
		Total Principal		5,088,975	5,121,517	5,116,661	5,106,900	4,992,329	4,912,566	4,903,027	4,867,432	4,862,303
		Total Interest		3,689,711	3,262,292	3,067,011	2,854,976	2,625,363	2,399,291	2,173,176	1,944,620	1,716,404
		Total Payment		8,778,686	8,383,809	8,183,672	7,961,876	7,617,692	7,311,857	7,076,203	6,812,052	6,578,707
<b>Existing Debt Service by Funding Source</b>												
		Tax Levy		342,734	310,106	301,932	291,853	182,316	178,047	172,038	166,191	160,823
		Tax Levy (Exempted)		7,649,086	7,305,377	7,136,056	6,948,603	6,743,845	6,540,752	6,332,628	6,097,280	5,891,968
		Light & CATV		762,312	743,573	720,914	696,520	666,415	567,925	546,150	524,025	501,725
		Sewer & Other		24,554	24,753	24,770	24,900	25,116	25,133	25,387	24,556	24,191
		Total		8,778,686	8,383,809	8,183,672	7,961,876	7,617,692	7,311,857	7,076,203	6,812,052	6,578,707
<b>Debt Service Funded Via Tax Levy</b>												
		Tax Levy		342,734	310,106	301,932	291,853	182,316	178,047	172,038	166,191	160,823
		Tax Rate Impact (4.250B)		\$0.08	\$0.07	\$0.07	\$0.07	\$0.04	\$0.04	\$0.04	\$0.04	\$0.04
		Average Tax Bill (\$346,425)		\$27.93	\$25.27	\$24.61	\$23.79	\$14.86	\$14.51	\$14.02	\$13.55	\$13.11
		Tax Levy (Exempted)		7,649,086	7,305,377	7,136,056	6,948,603	6,743,845	6,540,752	6,332,628	6,097,280	5,891,968
		SBA Funding (Floral)		(585,681)	(585,681)	(585,681)	(585,681)	(585,681)	(585,681)	(585,681)	(585,681)	(585,681)
		SBA Funding (HS)		(3,206,732)	(3,206,732)	(3,206,732)	(3,206,732)	(3,206,732)	(3,206,732)	(3,206,732)	(3,206,732)	(3,206,732)
		Net Tax Levy Exempted		3,856,673	3,512,964	3,343,643	3,156,190	2,951,432	2,748,339	2,540,215	2,304,867	2,099,555
		Tax Rate Impact (4.250B)		\$0.91	\$0.83	\$0.79	\$0.74	\$0.69	\$0.65	\$0.60	\$0.54	\$0.49
		Average Tax Bill (\$346,425)		\$314.33	\$286.32	\$272.52	\$257.24	\$240.55	\$224.00	\$207.04	\$187.85	\$171.12
		Combined		\$0.99	\$0.90	\$0.86	\$0.81	\$0.74	\$0.69	\$0.64	\$0.58	\$0.53
				\$342.27	\$311.59	\$297.13	\$281.03	\$255.41	\$238.51	\$221.06	\$201.40	\$184.23
<b>Proposed Debt Service</b>												
15	7/1/2007	Fire Facilities	5.00% Principal			335,000	335,000	335,000	335,000	335,000	335,000	335,000
			Interest		200,000	332,500	315,750	299,000	282,250	265,500	248,750	232,000
					200,000	667,500	650,750	634,000	617,250	600,500	583,750	567,000
					\$0.05	\$0.16	\$0.15	\$0.15	\$0.15	\$0.14	\$0.14	\$0.13
					\$16.30	\$54.40	\$53.04	\$51.67	\$50.31	\$48.94	\$47.58	\$46.21
		Tax Rate Impact (4.250B)										
		Average Tax Bill (\$346,425)										
		Revised Combined		\$0.99	\$0.95	\$1.01	\$0.96	\$0.89	\$0.83	\$0.78	\$0.72	\$0.67
				\$342.27	\$327.89	\$351.53	\$334.07	\$307.08	\$288.82	\$270.00	\$248.98	\$230.44

Note: Portion of FY 2007 interest expenses to be offset by investment of bond proceeds

**Exhibit Two**  
**Combined Debt Service Schedule**  
**With**  
**Projected Debt Service Expenses - Fire Facilities Project**

<u>Issue No.</u>	<u>Date of Issue</u>	<u>Purpose</u>	<u>Type of Payment</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>
1	2/1/1996 2/1/2005	<b>Floral St (EXEMPT)</b> 9,000,000	Principal Interest Total	411,650 34,565 446,215	402,700 19,128 421,828							
1	2/1/1996 2/1/2005	<b>Floral St</b> 1,000,000	Principal Interest Total	48,350 4,060 52,410	47,300 2,247 49,547							
2	2/1/1996 2/1/2005	<b>Town Hall Addition</b> 1,000,000	Principal Interest Total									
3	6/1/1999	<b>CATV Upgrade</b> 5,300,000	Principal Interest Total									
4	6/1/1999	<b>Land Acquisition</b> 3,000,000	Principal Interest Total	155,000 33,750 188,750	155,000 26,000 181,000	155,000 18,250 173,250	155,000 10,500 165,500	55,000 2,750 57,750				
5	6/1/1999	<b>Land Acquisition (HS)</b> 2,400,000	Principal Interest Total	120,000 30,000 150,000	120,000 24,000 144,000	120,000 18,000 138,000	120,000 12,000 132,000	120,000 6,000 126,000				
6	6/1/1999	<b>Senior Center</b> 1,000,000	Principal Interest Total									
7	10/25/2000	<b>Title V Loan Program</b> 86,947	Principal Interest Total	4,831 0 4,831	4,831 0 4,831	4,831 0 4,831	4,831 0 4,831	4,831 0 4,831				
8	8/15/2001	<b>High School</b> 58,900,000	Principal Interest Total	3,075,000 1,152,875 4,227,875	3,075,000 999,125 4,074,125	3,075,000 845,375 3,920,375	3,075,000 691,625 3,766,625	3,075,000 537,875 3,612,875	3,075,000 384,125 3,459,125	3,075,000 230,375 3,305,375	3,070,000 76,750 3,146,750	
9	8/15/2001	<b>Land Acquisition</b> 2,000,000	Principal Interest Total	110,000 30,250 140,250	110,000 24,750 134,750	110,000 19,250 129,250	110,000 13,750 123,750	110,000 8,250 118,250	110,000 2,750 112,750			

**Exhibit Two**  
**Combined Debt Service Schedule**  
**With**  
**Projected Debt Service Expenses - Fire Facilities Project**

<u>Issue No.</u>	<u>Date of Issue</u>	<u>Purpose</u>	<u>Type of Payment</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>
10	8/15/2001	<b>Light Upgrade</b> 1,760,000	Principal	110,000	110,000	110,000	110,000					
			Interest	19,250	13,750	8,250	2,750					
			Total	129,250	123,750	118,250	112,750					
11	7/26/2001 2/1/2005	<b>Assabet River CWMP</b> 1,760,000	Principal	15,075	14,746	14,422	14,040	13,602	13,241	15,698		
			Interest	1,652	1,368	1,085	802	518	259	0		
			Total	16,727	16,114	15,507	14,842	14,120	13,500	15,698		
12	8/1/2004	<b>Title V Loan Program</b> 105,896	Principal	5,541	5,541	5,541	5,541	5,541	5,541	5,541	5,670	5,670
			Interest									
			Total	5,541	5,541	5,541	5,541	5,541	5,541	5,541	5,670	5,670
13	11/19/2004	<b>Oak Middle School</b> 7,400,000	Principal	370,000	370,000	370,000	370,000	370,000	370,000	370,000	370,000	370,000
			Interest	162,754	148,185	133,384	118,585	103,785	88,754	73,260	57,443	41,394
			Total	532,754	518,185	503,384	488,585	473,785	458,754	443,260	427,443	411,394
14	11/19/2004	<b>North Shore School</b> 1,250,000	Principal	85,000	80,000	80,000	80,000	80,000	80,000			
			Interest	17,747	14,500	11,300	8,100	4,900	1,650			
			Total	102,747	94,500	91,300	88,100	84,900	81,650			

**Exhibit Two**  
**Combined Debt Service Schedule**  
**With**  
**Projected Debt Service Expenses - Fire Facilities Project**

Issue No.	Date of Issue	Purpose	Type of Payment	2015	2016	2017	2018	2019	2020	2021	2022	2023
<b>Existing Debt Service</b>												
		Total Principal		4,510,447	4,495,118	4,044,794	4,044,412	3,833,974	3,653,782	3,466,239	3,445,670	375,670
		Total Interest		1,486,903	1,273,053	1,054,894	858,112	664,078	477,538	303,635	134,193	41,394
		Total Payment		5,997,350	5,768,171	5,099,688	4,902,524	4,498,052	4,131,320	3,769,874	3,579,863	417,064
<b>Existing Debt Service by Funding Source</b>												
		Tax Levy		155,157	144,047	91,300	88,100	84,900	81,650	0	0	0
		Tax Levy (Exempted)		5,685,844	5,473,888	4,864,259	4,676,460	4,388,660	4,030,629	3,748,635	3,574,193	411,394
		Light & CATV		129,250	123,750	118,250	112,750	0	0	0	0	0
		Sewer & Other		27,099	26,486	25,879	25,214	24,492	19,041	21,239	5,670	5,670
		Total		5,997,350	5,768,171	5,099,688	4,902,524	4,498,052	4,131,320	3,769,874	3,579,863	417,064
<b>Debt Service Funded Via Tax Levy</b>												
		Tax Levy		155,157	144,047	91,300						
		Tax Rate Impact (4.250B)		\$0.04	\$0.03	\$0.02						
		Average Tax Bill (\$346,425)		\$12.65	\$11.74	\$7.44						
		Tax Levy (Exempted)		5,685,844	5,473,888	4,864,259						
		SBA Funding (Floral)		(585,681)	(585,681)	(585,681)						
		SBA Funding (HS)		(3,206,732)	(3,206,732)	(3,206,732)	(3,206,732)	(3,206,732)	(3,206,732)	(3,206,732)	(3,206,732)	(3,206,732)
		Net Tax Levy Exempted		1,893,431	1,681,475	1,071,846	(3,206,732)	(3,206,732)	(3,206,732)	(3,206,732)	(3,206,732)	(3,206,732)
		Tax Rate Impact (4.250B)		\$0.45	\$0.40	\$0.25	(\$0.75)	(\$0.75)	(\$0.75)	(\$0.75)	(\$0.75)	(\$0.75)
		Average Tax Bill (\$346,425)		\$154.32	\$137.05	\$87.36	(\$261.36)	(\$261.36)	(\$261.36)	(\$261.36)	(\$261.36)	(\$261.36)
		Combined		\$0.48	\$0.43	\$0.27	(\$0.75)	(\$0.75)	(\$0.75)	(\$0.75)	(\$0.75)	(\$0.75)
				\$166.97	\$148.79	\$94.80	(\$261.36)	(\$261.36)	(\$261.36)	(\$261.36)	(\$261.36)	(\$261.36)
<b>Proposed Debt Service</b>												
15	7/1/2007	Fire Facilities	5.00% Principal	335,000	335,000	335,000	330,000	330,000	330,000	330,000	330,000	330,000
			Interest	215,250	198,500	181,750	165,000	148,500	132,000	115,500	99,000	82,500
		\$6,650,000		550,250	533,500	516,750	495,000	478,500	462,000	445,500	429,000	412,500
		Tax Rate Impact (4.250B)		\$0.13	\$0.13	\$0.12	\$0.12	\$0.11	\$0.11	\$0.10	\$0.10	\$0.10
		Average Tax Bill (\$346,425)		\$44.85	\$43.48	\$42.12	\$40.34	\$39.00	\$37.65	\$36.31	\$34.96	\$33.62
		Revised Combined		\$0.61	\$0.56	\$0.40	(\$0.64)	(\$0.64)	(\$0.65)	(\$0.65)	(\$0.65)	(\$0.66)
				\$211.81	\$192.27	\$136.92	(\$221.02)	(\$222.36)	(\$223.70)	(\$225.05)	(\$226.39)	(\$227.74)

**Exhibit Two**  
**Combined Debt Service Schedule**  
**With**  
**Projected Debt Service Expenses - Fire Facilities Project**

Issue No.	Date of Issue	Purpose	Type of Payment	2024	2025	2026	2027	Total
1	2/1/1996 2/1/2005	<b>Floral St (EXEMPT)</b> 9,000,000	Principal Interest Total					4,938,350 1,083,333 6,021,683
1	2/1/1996 2/1/2005	<b>Floral St</b> 1,000,000	Principal Interest Total					564,850 120,388 685,238
2	2/1/1996 2/1/2005	<b>Town Hall Addition</b> 1,000,000	Principal Interest Total					379,400 35,910 415,310
3	6/1/1999	<b>CATV Upgrade</b> 5,300,000	Principal Interest Total					3,170,000 737,899 3,907,899
4	6/1/1999	<b>Land Acquisition</b> 3,000,000	Principal Interest Total					2,070,000 720,810 2,790,810
5	6/1/1999	<b>Land Acquisition (HS)</b> 2,400,000	Principal Interest Total					1,680,000 612,240 2,292,240
6	6/1/1999	<b>Senior Center</b> 1,000,000	Principal Interest Total					400,000 44,000 444,000
7	10/25/2000	<b>Title V Loan Program</b> 86,947	Principal Interest Total					67,634 0 67,634
8	8/15/2001	<b>High School</b> 58,900,000	Principal Interest Total					52,270,000 22,089,750 74,359,750
9	8/15/2001	<b>Land Acquisition</b> 2,000,000	Principal Interest Total					1,655,000 614,475 2,269,475

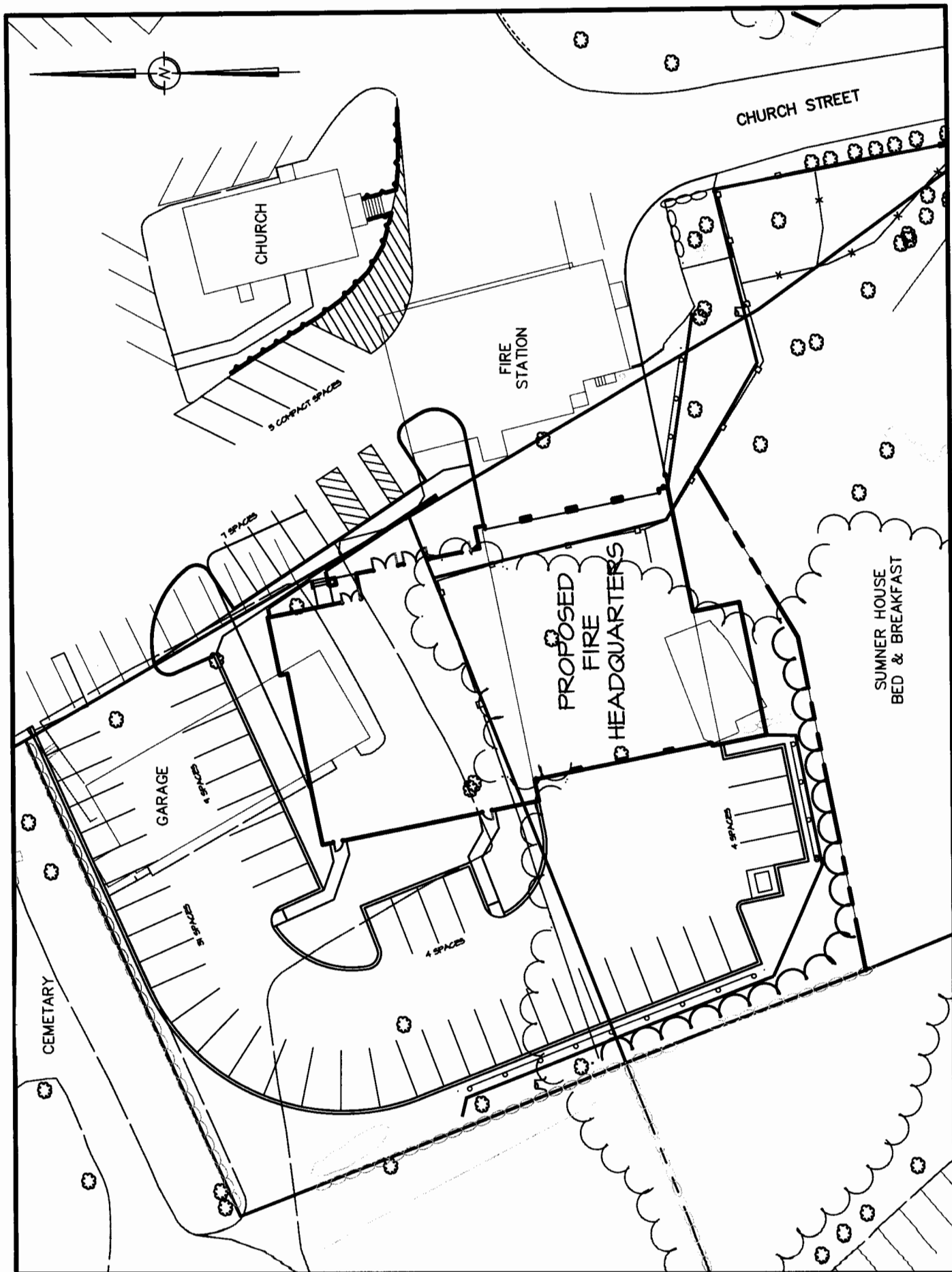


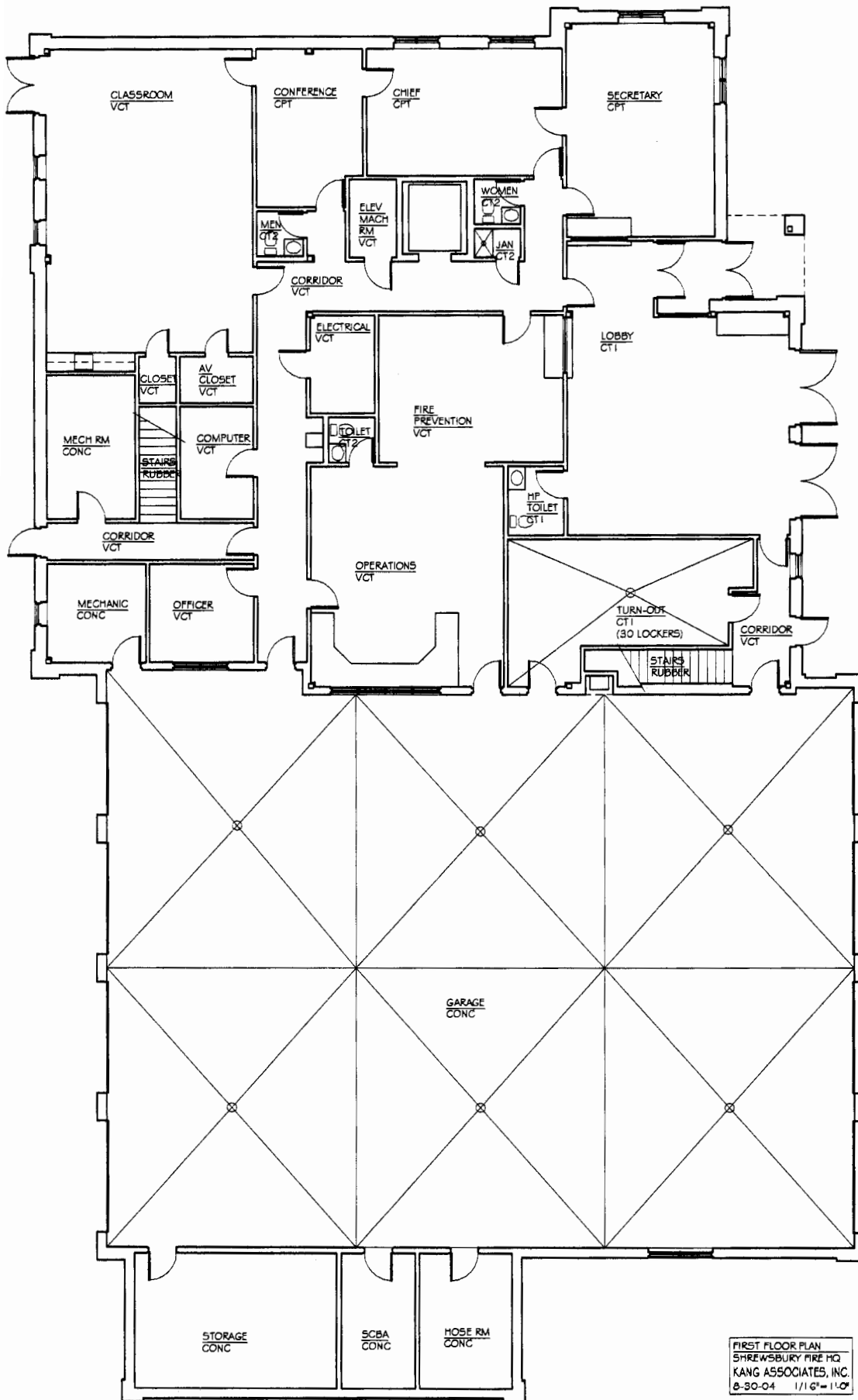
**Exhibit Two**  
**Combined Debt Service Schedule**  
**With**  
**Projected Debt Service Expenses - Fire Facilities Project**

<u>Issue No.</u>	<u>Date of Issue</u>	<u>Purpose</u>	<u>Type of Payment</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>Total</u>
10	8/15/2001	<b>Light Upgrade</b>	Principal					1,430,000
			Interest					460,350
			Total					1,890,350
11	7/26/2001 2/1/2005	<b>Assabet River CWMP</b>	Principal					206,535
			Interest					29,934
			Total					236,469
12	8/1/2004	<b>Title V Loan Program</b>	Principal					100,047
			Interest					0
			Total					100,047
13	11/19/2004	<b>Oak Middle School</b>	Principal	370,000	370,000			7,400,000
			Interest	24,975	8,325			3,138,895
			Total	394,975	378,325			10,538,895
14	11/19/2004	<b>North Shore School</b>	Principal					1,250,000
			Interest					371,956
			Total					1,621,956

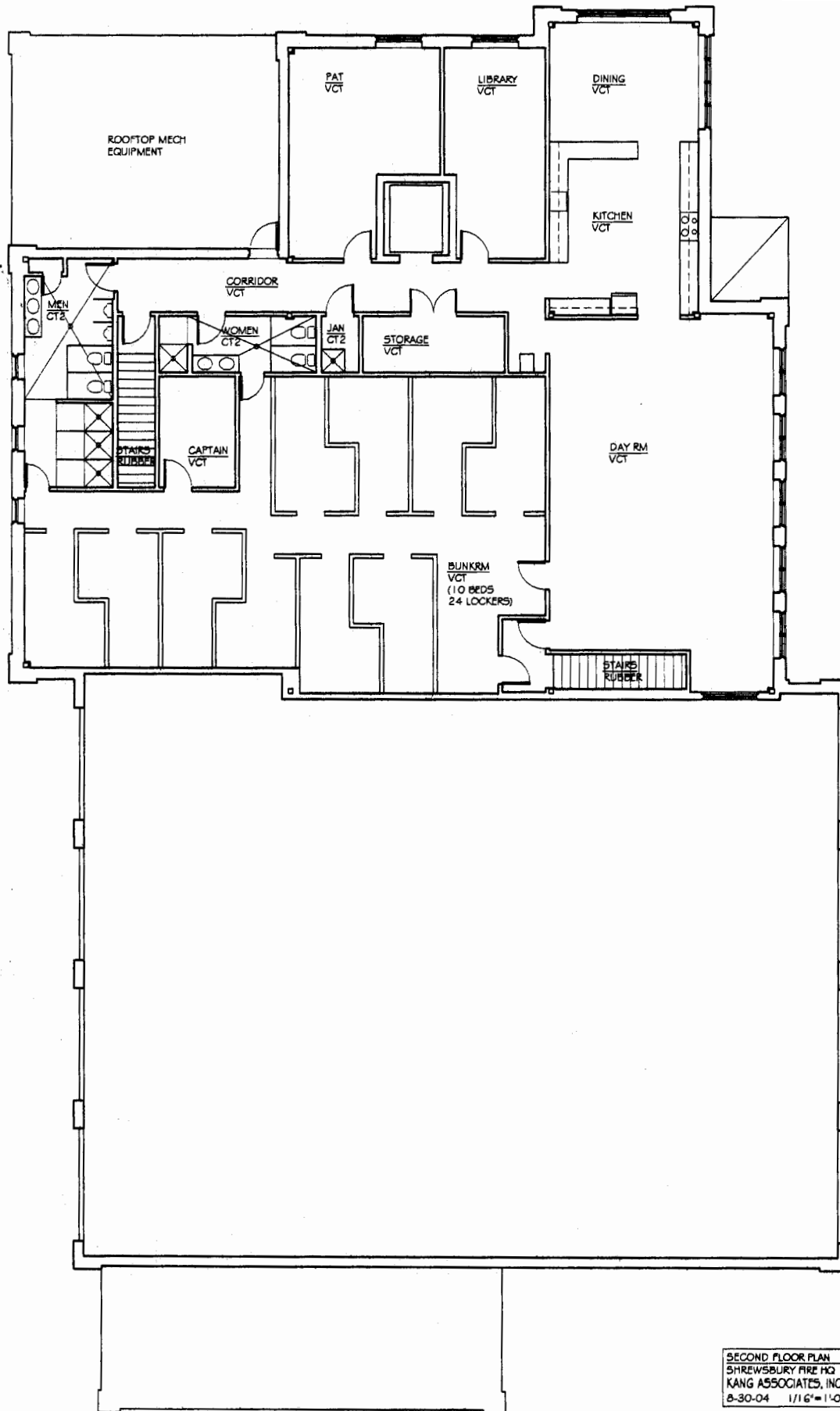
**Exhibit Two**  
**Combined Debt Service Schedule**  
**With**  
**Projected Debt Service Expenses - Fire Facilities Project**

Issue No.	Date of Issue	Purpose	Type of Payment	2024	2025	2026	2027	Total
<b>Existing Debt Service</b>								
		Total Principal		370,000	370,000			77,581,816
		Total Interest		24,975	8,325			30,059,940
		Total Payment		394,975	378,325			107,641,756
<b>Existing Debt Service by Funding Source</b>								
		Tax Levy		0	0			2,751,194
		Tax Levy (Exempted)		394,975	378,325			98,272,853
		Light & CATV		0	0			6,213,559
		Sewer & Other		0	0			404,150
		Total		394,975	378,325			107,641,756
<b>Debt Service Funded Via Tax Levy</b>								
		Tax Levy						
		Tax Rate Impact (4.250B)						
		Average Tax Bill (\$346,425)						
		Tax Levy (Exempted)						
		SBA Funding (Floral)						
		SBA Funding (HS)						
		Net Tax Levy Exempted		(3,206,732)	(3,206,731)			
		Tax Rate Impact (4.250B)		(3,206,732)	(3,206,731)			
		Average Tax Bill (\$346,425)		(\$0.75)	(\$0.75)			
		Combined		(\$0.75)	(\$0.75)			
				(\$261.36)	(\$261.36)			
<b>Proposed Debt Service</b>								
15	7/1/2007	Fire Facilities	5.00%					
		Principal		330,000	330,000	330,000	330,000	6,650,000
		Interest		66,000	49,500	33,000	16,500	3,678,750
		Total		396,000	379,500	363,000	346,500	10,328,750
		Tax Rate Impact (4.250B)		\$0.09	\$0.09	\$0.09	\$0.08	
		Average Tax Bill (\$346,425)		\$32.28	\$30.93	\$29.59	\$28.24	
		Revised Combined		(\$0.66)	(\$0.67)	\$0.09	\$0.08	
				(\$229.08)	(\$230.43)	\$29.59	\$28.24	

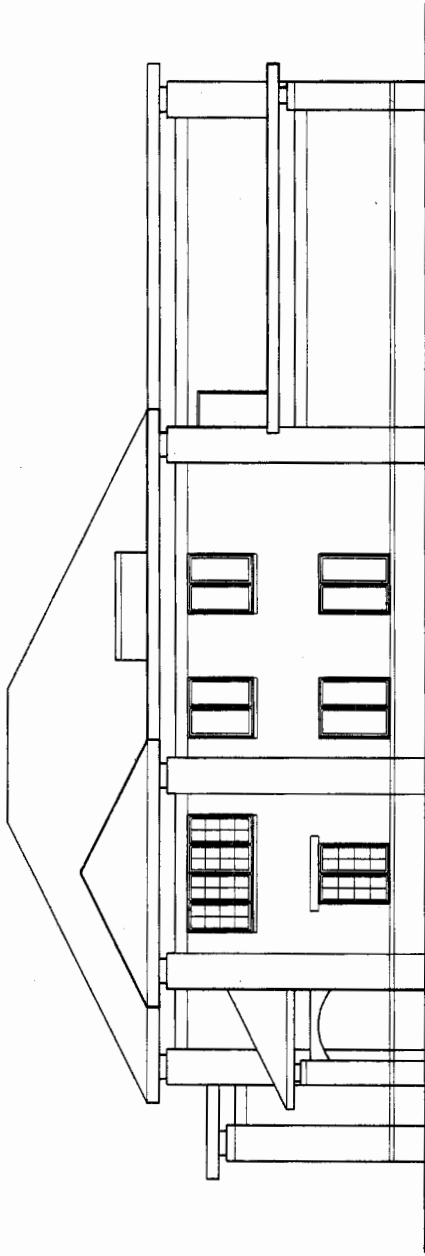




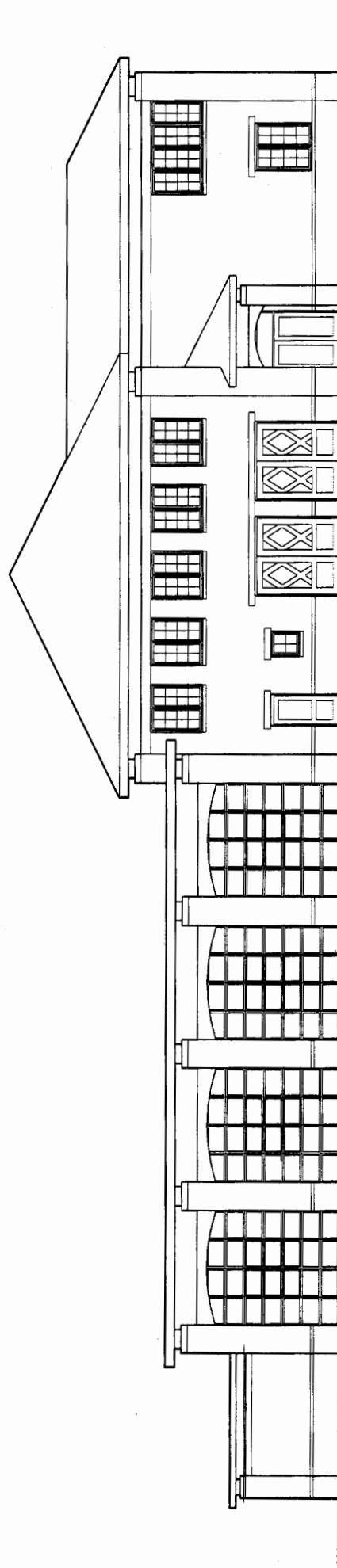
FIRST FLOOR PLAN  
SHREWSBURY FIRE HQ  
KANG ASSOCIATES, INC.  
8-30-04 1/16" = 1'-0"



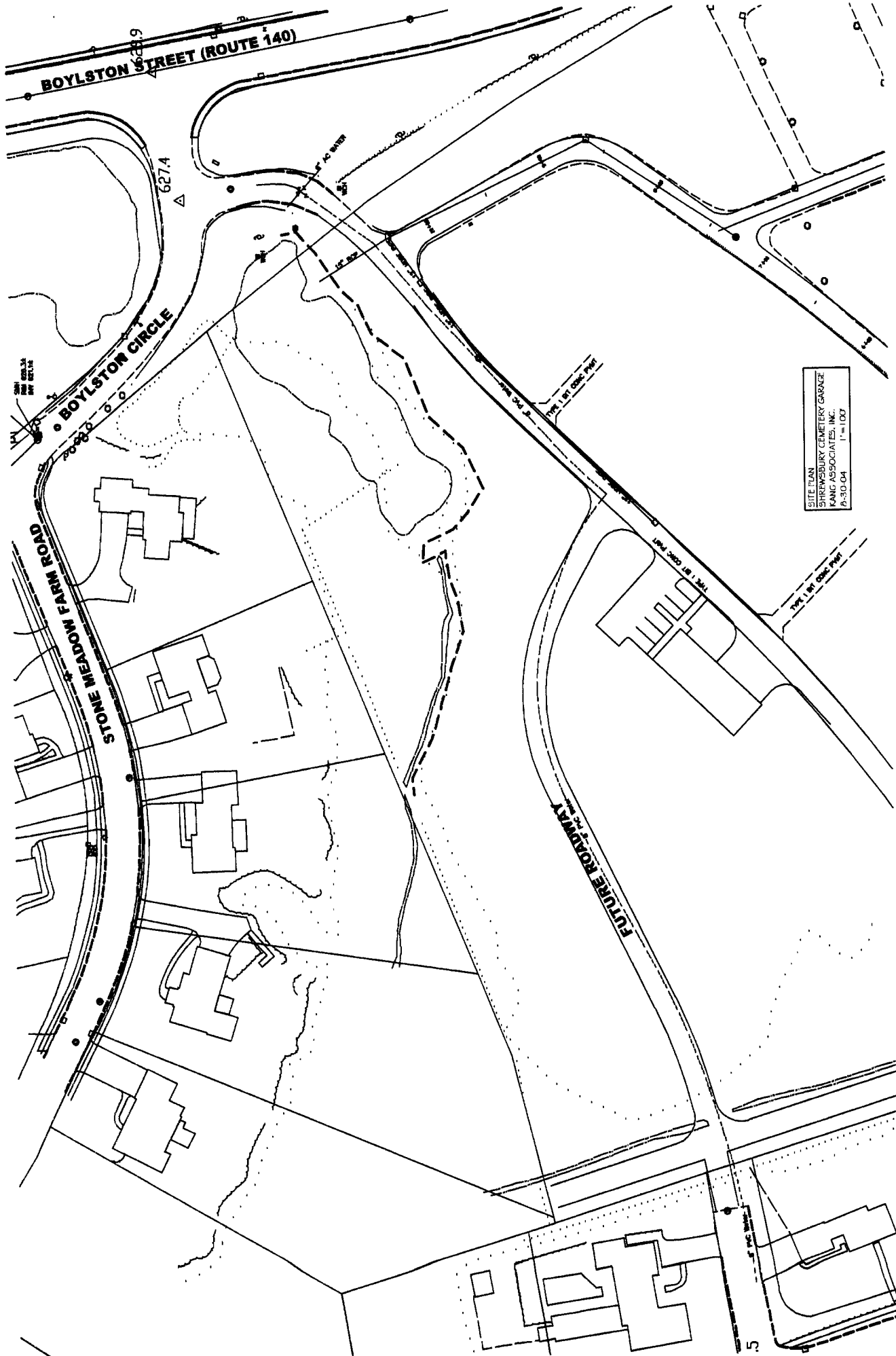
SECOND FLOOR PLAN  
SHREWSBURY FIRE HQ  
KANG ASSOCIATES, INC.  
8-30-04 1/16" = 1'-0"



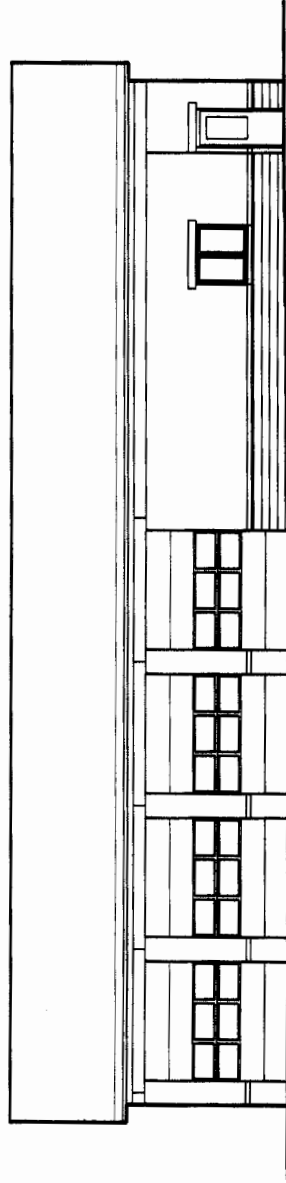
NORTH ELEVATION  
SHREWSBURY FIRE HQ  
KANG ASSOCIATES, INC.  
8-30-04 1/16"=1'-0"



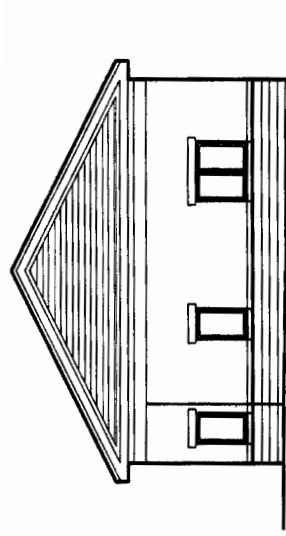
EAST ELEVATION  
SHREWSBURY FIRE HQ  
KANG ASSOCIATES, INC.  
8-30-04 1/16"=1'-0"



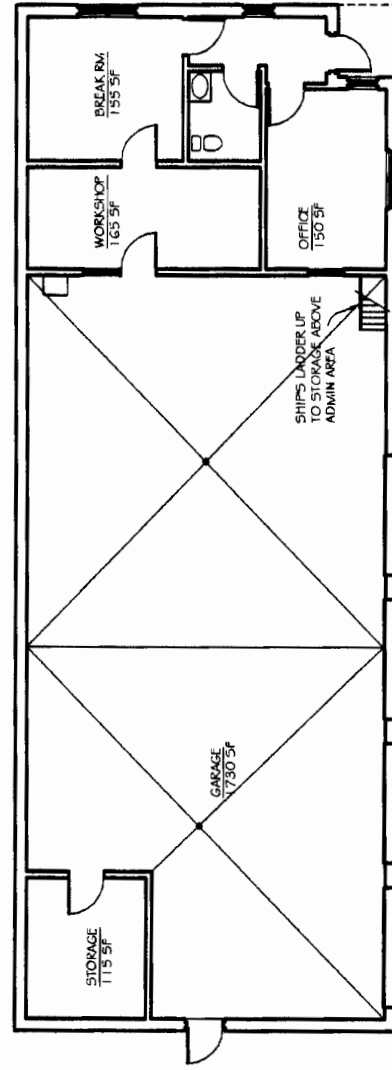
SITE PLAN  
SHREWSBURY CEMETERY GARAGE  
KANC ASSOCIATES, INC.  
9-30-04 1"=100'



② SOUTH ELEVATION



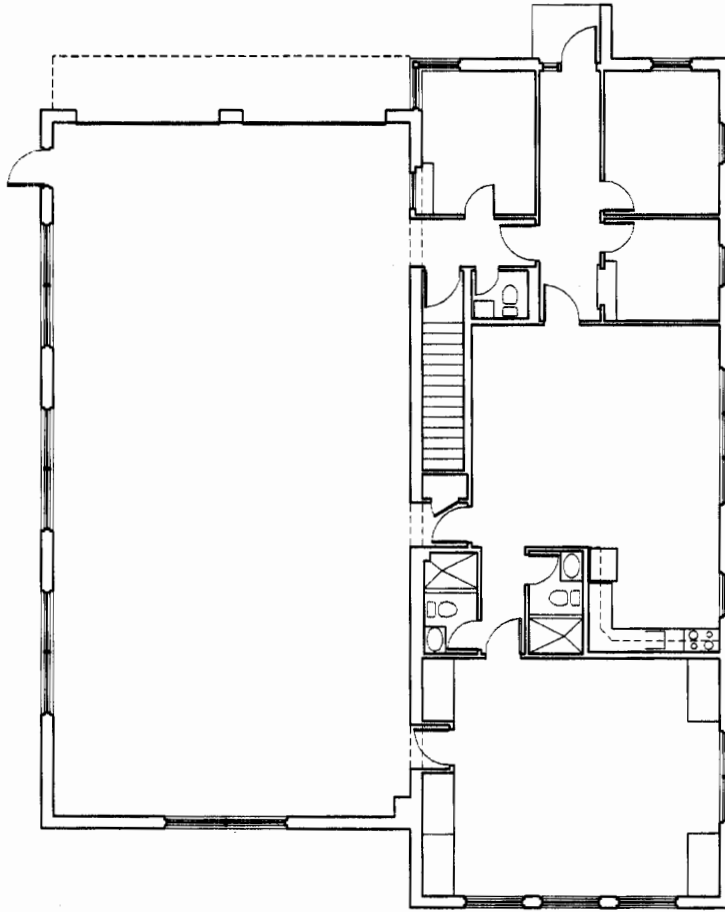
③ EAST ELEVATION



① FLOOR PLAN

FLOOR PLAN & BLDG. ELEVATIONS  
STREWSBURY CEMETERY GARAGE  
KANG ASSOCIATES, INC.  
8-30-04 1/16" = 1'-0"





FIRST FLOOR PLAN  
SHREWSBURY FIRE STATION #2  
KANG ASSOCIATES, INC.  
8-30-04 1/16"=1'-0"